

What is claimed is:

- 59
cu7
1. A membrane eraser used for ophthalmic surgery, comprising:
 a grip portion;
 a rod shaped body having opposite first and second ends,
 5 said first end being attached to [one end of] said grip
portion, said second end extending away from said grip
portion;
 an elastic body [fitted along a direction toward a front
 end of said] having opposite proximal and distal ends and a
 10 hollow interior, said hollow interior at said proximal end
receiving said second end of said rod-shaped body [to the front
end side thereof and having a hollow tapered front tip], said
distal end having a tapered tip extending away from said rod
shaped body; and
 15 a plurality of hard, inorganic fine-grains fixed on said
 tapered [front] tip of said elastic body [wherein said grains
 are located in a range of 0.5 mm to 3.0 mm from an end portion
 of said front tip], said fine-grains configured for removal of
 membrane tissue on a retina of an individual.
2. ~~A membrane eraser according to claim 1, wherein said
 elastic body comprises silicone rubber.~~
3. A membrane eraser according to claim 1, wherein said hard
 inorganic fine-grains comprise grains having a range in
 diameter from 3 μm to 80 μm .
4. A membrane eraser according to claim 1, wherein said hard
 inorganic fine-grains comprise diamond particles.
5. ~~A membrane eraser according to claim 1, wherein said rod-
 shaped body comprises titanium.~~
- 627

54
G32

6. A membrane eraser according to claim 1, wherein said hard inorganic fine-grains are fixed by a silicone base adhesive to said [front] tapered tip.

7. A membrane eraser according to claim 1, wherein said grains are located in a range of 0.5 mm to 3.0 mm from said distal end of the elastic body.

8. An ophthalmic treatment tool comprising:

a grip;

a rod shaped body having opposite first and second ends, said first end attached to said grip, said second end

5 extending away from said grip;

an elastic body attached to said second end of said rod shaped body, said elastic body having a tapered tip extending away from said rod shaped body; and

10 a plurality of hard, inorganic fine-grains fixed on said tapered tip of said elastic body, said fine-grains having a diameter in a range of 3 μ m to 80 μ m.

54
G47

9. The ophthalmic treatment tool according to claim 8 wherein said elastic body has a general cylindrical shape with opposite proximal and distal ends and a hollow interior, said proximal end is fitted onto said second end of said rod shaped
5 body, said distal end is cut on a bevel forming said tapered tip.

10. The ophthalmic treatment tool according to claim 8 wherein said rod shaped body has slender line portion at said second end, the elastic body is fitted on said slender line portion.

11. The ophthalmic treatment tool according to claim 10 wherein said slender line portion is formed in an angle relative to said rod shaped body.

12. An ophthalmic treatment tool comprising:

a grip;

a rod shaped body having opposite first and second ends,
said first end attached to said grip, said second end having a
slender line portion extending away from said grip;

an elastic body having a generally tubular shape with
openings at opposite proximal and distal ends, said proximal
end opening receiving said slender line portion therein, said
second end being spaced from said slender line portion and
extending to a distal end having a taper; and

a plurality of hard, inorganic fine-grains fixed on said
distal end of said elastic body.

13. The ophthalmic treatment tool according to 12 wherein
said slender line portion is formed in an angle relative to
said rod shaped body.

14. The ophthalmic treatment tool according to claim 12
wherein said fine-grains are located in a range of 0.5 mm to
3.0 mm from a distal end of the elastic body.

15. The ophthalmic treatment tool according to claim 12
wherein said fine-grains have a range in diameter from 3 μ m to
80 μ m.

16. A membrane eraser for ophthalmic treatment comprising:

a tool having a length with opposite proximal and distal
ends, a rigid portion of the tool adjacent the tool proximal
end and an elastic portion of the tool adjacent the tool
distal end, the elastic portion of the tool is attached to the
rigid portion of the tool and projects from the rigid portion
of the tool for a portion of the length of the tool to the
tool distal end; and

a plurality of hard, inorganic fine-grains fixed to the
elastic portion of the tool.

17. The membrane eraser of claim 16, wherein:

the elastic portion of the tool is flexible along the portion of the length of the tool that the elastic portion projects from the rigid portion.

18. The membrane eraser of claim 16, wherein:

the plurality of hard, inorganic fine-grains are fixed to the elastic portion of the tool adjacent the distal end of the tool.

19. The membrane eraser of claim 16, wherein:

the rigid portion of the tool includes a grip at the tool proximal end and a rod-shaped body attached to the grip and projecting from the grip.

20. The membrane eraser of claim 16, wherein:

the elastic portion has a beveled surface adjacent the distal end of the tool and the hard, inorganic fine-grains are fixed on the beveled surface.

ADD
9

7 add B5